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**(54) HEATING ENGINE AND  
SPEED CONTROLLING FOR  
STIRLING ENGINE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To prevent the generation of harmful exhaust gas and easily control the speed of a Stirling engine by generating heat by combining hydrogen with oxygen in a fuel cell and by heating the Stirling engine by the generated heat to produce power.

**SOLUTION:** In a water decomposing unit 3, hydrogen 5 and oxygen 6 are generated by electric discharge and the generated hydrogen 5 and oxygen 6 are passed through a fuel cell 2 to generate the heat of reaction and a Stirling engine 1 is rotated by the heat. The fuel cell 2 generates an electricity, which is charged in a battery 10. The rotational speed of the Stirling engine 1 is controlled by a continuously variable transmission 4 which suitably transmits the rotational speed of the engine to a drive wheel including a tire 8 to run a vehicle.

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